

**SPECIFICATIONS**  
**ENCOMPASS RGBW LANDSCAPE LIGHT**

**Updated: 24 Apr 2026**

**1.0 DESCRIPTION**

- A. Branding.** LAND MASTER® LIGHTING is a product line of landscape lighting products designed and manufactured by AQUAMASTER® FOUNTAINS AND AERATORS.
- B. Light** shall consist of a power coated cast aluminum housing, containing an LED and constant current driver. The bottom of the housing shall have a protruding quick connect for supplying electrical power. Top side of the housing shall consist of a clear polymetric cover lens and power coated cast aluminum lens cover which are both secured to the housing by a modified silane or silicone rubber adhesive. The constant current driver shall be potted in an electrical potting epoxy.
- C. Quick Connect** shall consist of a male, twist locking, C2 style, four conductor, circular connector rated for 5 amps.
- D. Quick Connect Whip Cable** shall consist of a four conductor cable with one end terminated with an overmolded female connector designed to mate with the Quick Connect described above in bullet point **B**. The opposite end of the cable shall be terminated by a set of four flying leads intended to be wired into a main low voltage landscape cable (commonly known as a “trunk line”). The Red and Black leads shall be used for 24 VDC input power and the Orange and Brown leads shall be used for data control using RS-485 communication standard.
- E. Luminous Flux.** The Encompass RGBW LED and driver have approximately the following luminous flux values at the LED surface at standard operating conditions:

Red: 450 Lumens  
Green: 650 Lumens  
Blue: 115 Lumens  
White: 580 Lumens

- F. Markings** shall be laser engraved onto an anodized aluminum disk which is secured to the bottom of the light fixture by means of a jam nut on the quick connect. These markings shall indicate the product part number, date of manufacture, power requirements and Underwriters Laboratory E-file number.
- G. Safety Testing.** Encompass RGBW lights have been evaluated for safety against fire and electrical hazard by Underwriters Laboratory under standard UL 1838 (Low Voltage Landscape Lighting Systems). Encompass RGBW lights are UL listed under file number E492645.
- H. Warranty** on all Encompass RGBW landscape lights are covered by warranty against failures due to material defects or workmanship, at 100% of the original cost for a period of 3 years. See the official warranty policy or “Warranty at a Glance” documentation for additional details.
- I. Installation** shall be done in accordance with the installation instructions, and in compliance with all local and National Electrical Code requirements. Any alterations to or substitution void the Underwriters Laboratories Listing and will void the product Warranty. Read the instructions thoroughly before starting the installation and follow them carefully throughout.
- J. Mounting** shall only be done with Encompass mounting stakes or brackets sold by AQUAMASTER® FOUNTAINS AND AERATORS. Take care to mount in a way that lights not be hit by landscape or snow removal equipment or chemicals.
- K. Recessed Mounting.** Encompass RGBW lights should only be mounted in recessed locations such as dirt, mulch or concrete using recessed mounting hardware sold by AQUAMASTER® FOUNTAINS AND AERATORS. Ensure that recessed lights will not be in standing water. Recessed mounting locations should be appropriately designed with gravel or mulch to ensure appropriate drainage.
- L. Flooding and Underwater Operation.** Encompass RGBW lights shall not be used for underwater operation. Although the lights are durable against periods of brief submersion, they should not be installed in locations with a history of flooding. Extended periods of submersion void the warranty. Note that UL 1838 prohibits the installation of landscape

lighting power units (commonly known as transformers) within 10 feet (3.05 m) of any pool or spa.

**M. Manufacture.** All Encompass RGBW lights are proudly assembled in the USA. Assembly is performed at AQUAMASTER® FOUNTAINS AND AERATORS, 16024 COUNTY RD X, Kiel, WI 53042, (920) 693-3121.

[www.aquamasterfountains.com](http://www.aquamasterfountains.com)

## 2.0 DETAILED ELECTRICAL INFORMATION

**A. Voltage.** Encompass RGBW lights shall be powered only with 24 volt DC landscape lighting power units (commonly known as “transformers”). Use with power units supplying other voltages will void the warranty and may permanently damage the light. It’s strongly recommended to use a voltage drop chart and measure voltage at the location where the quick connect whip cable is spliced into the main low voltage landscape cable (commonly known as the “trunk line”). Voltage at the splice point must be at least 21 volts or the light may behave erratically.

**B. Wattage.** Encompass RGBW lights are rated at 11W.

**C. Power Units.** Encompass RGBW lights may only be used with low voltage landscape lighting power units (commonly known as “landscape lighting transformers”) with a maximum output rating of 24 volts and a maximum power rating of 300W pursuant to UL standard 1838.

**D. Installation** shall only be performed by qualified electrical personnel who are familiar with landscape lighting systems.

**E. Control and Synchronization.** Encompass RGBW lights can only be controlled for the selection of different lighting patterns and synchronization by AQUAMASTER® FOUNTAINS AND AERATORS proprietary controllers. Although any landscape lighting power unit (commonly known as a “transformer”) that supplies 24 volts DC and appropriate wattage can be used with the Encompass RGBW lights, they will only operate on the default lighting pattern and will not stay synchronized.